

ICT Assessment Portfolio – Key stage 3

J Hawkins

How work is levelled in ICT

- Most pieces of ICT work in cross curricular subjects will have certain characteristics of a particular level in ICT
- Pupils work in ICT should now show planning, developing and reflecting in order to reach higher levels.
- The POS also specifies that internet safety is taught to pupils (we do this through discreet ICT lessons)

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Level 3 characteristics

- Pupils begin to organise their tasks and use ICT to create, organise, amend and present information and ideas.
- They find information from a range of given sources and use ICT to search, sort and/or graph data to follow simple lines of enquiry.
- Pupils understand how changing one variable affects another in models or simulations.
- They store and retrieve work independently.
- Pupils send and receive information electronically, with support.
- They understand the use of a range of input and output devices.

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Level 3 – Communicating information

ICT is used to create and present information and ideas



Limited information has been found from a range of sources

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Level 3 – finding out information

They find information from a range of given sources and use ICT to search, sort and/or graph data to follow simple lines of enquiry. i.e. search engine



Pupils have used ICT to create, organise, amend and present information and ideas

Level 4 characteristics

- Pupils broadly plan their tasks and combine a variety of information and media when creating and developing their ideas, with a sense of purpose and audience.
- They use ICT to select relevant information from a range of given sources, recognising that poor quality information and data yields unreliable results.
- Pupils begin to check the validity of data. They add and amend records in databases.
- They use ICT to explore patterns and relationships. They make simple predictions about how changing one variable affects another in models or simulations.
- They send and receive information electronically.
- Pupils discuss and begin to form opinions about some of the issues raised by the use of ICT and internet safety.
- They use the internet/related technologies safely in accordance with given guidelines.

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Level 4 – finding things out

There is a sense of audience and purpose

WORLD'S OWN RADIATOR HEATING UP
Global Warming Carries On

You may not have noticed, but the earth has been getting hotter and hotter and colder and colder over the last few years in certain places. Scientists predict that we will have more heat waves and hurricanes than we usually have. Nobody can prove that earth is going to keep getting hotter, but it's getting more and more likely.

The earth has warmed about 1 degree F over the past 100 years. It could be getting warmer on its own, but the world's leading climate scientists say we to blame as well.

♦ Scientists say that the hole in the Ozone Layer could disappear within 20 years.

Greenhouse Effect

The Greenhouse Effect is when certain gases, such as Water Vapor, Carbon Dioxide, Methane Oxide and others, trap energy from the sun. Without these gases the temperature would drop 60 degrees F. It is called the Greenhouse Effect because these gases let the heat from the sun to earth, but they don't let the heat come out. And a Greenhouse lets all the heat come in to help grow the plants, but the heat can't go back out.

How The Earth Gets Warmer

The earth is getting warmer by having more and more of the gases that trap energy from the sun. That affects us, because the more gases we have the more heat gets trapped from the sun. One of the gases that we have lots more of these days is Carbon Dioxide.

♦ The hole in the ozone layer is over the Antarctic. The ice is melting away quickly and turning into water which is making the sea gradually keep rising. This will cause more and more huge floods.

Carbon dioxide is made when you burn things like coal and petrol. It is also made when you burn trees, as trees and most living things are made up from tiny particles called carbon and when you burn carbon you get carbon dioxide.

The Ozone Layer

There is also something called the Ozone Layer which is a gas that surrounds the earth. But now there is a hole in the Ozone Layer. The Ozone Layer is like a shield for the earth as it stops types of light from getting to the earth so easily. But now that there is a hole in it, those types of light can get through easily. One of the types of light that comes through is called Ultra Violet, which holds a huge amount of heat. It's also a very bright type of light so we wear sunglasses to shield our eyes from it. Another type of light that can get through the Ozone Layer now is called infrared, which also holds a lot of heat. We can't actually see infrared, but some animals can.

Extra Info

The hole was caused by people putting chemical called chlorofluorocarbons (CFC's) into things such as spray deodorant. So when you spray it, it damages the Ozone Layer.

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♦ CFC's are now banned in all countries.

Pupil has combined a variety of info and media in developing their ideas.

Pupil has shown an awareness of the basic functions of the software they decided to use

L4 – Communicating Information

Task sheet given to pupils.

Year 9 ICT DTP

Welsh Tourist information Leaflet

Learning objectives:

- To research information and images to put on to the leaflet using books/ tourist guides/internet.
- To produce a 3 fold leaflet using MS Publisher advertising tourist places in Wales
- To be aware of your audience (tourists wanting to come and visit Wales)
 - To format your leaflet appropriately by using colour, fonts, background, layers, rotate images etc.
- To include appropriate images and information on the leaflet.

Lesson 1 – Produce leaflet using DTP software (publisher)

Lesson 2 – Complete the leaflet.

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Pupil task sheet given to pupils to complete the DTP task

L4 - Communicating Info Pupil Work



Also for families there is loads and loads of cinemas and bowling places



And if there is anything you need then go to Cardiff for some



ALSO IF YOU LIKE thriller rides then Wales is the place to come!



Pupil DTP work with images, work art and text

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L4 - Communicating Info Pupil Work

ALSO THERE IS ...

Also in Cardiff there's a massive swimming pool and you'll have the time of your life.



If you like swimming pools then you'll love the slides there!



also for explorers there is

Loads and loads of mountains e.g. Snowdonia and Brecon beacons

Things to do in Wales



Watch the famous Cardiff city in Ninian Park.



Student has made this advertisement fit for purpose as he is informing the audience of things to do in Wales. He has used spell checker on the document. He has selected the appropriate layout putting different attractions on separate pages. He has used a balance of downloaded images and text.

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Level 4 - Modelling

Planning the School Leaver's Party

We are allowed up to £5.00 per person. We decided to make it a swimming party for all of our class and all of the teachers.

Item to purchase	Number needed	Cost per item	Total
Swimming Pool	1	£85.00	£85.00
Beef burgers (pack)	6	£2.05	£15.30
Tomato sauce	2	£2.37	£4.74
Sausages (pack)	6	£1.99	£11.94
Rolls (pack)	5	£0.87	£4.35
Baps (pack)	5	£0.98	£4.90
Gâteaux	5	£4.09	£24.95
Onions (packs)	3	£5.75	£17.25
Salad (packs)	4	£2.38	£9.44
Coke	12	£1.58	£23.88
Fruit Juice (4 packs)	4	£0.99	£3.96
Paper plates (packs)	5	£2.15	£10.75
Crisps (24 packs)	3	£2.00	£7.50
Total			£223.98
Number of people	45		
Cost per person		£4.98	

Nicci and Sarah

Nicci and Sarah had five pounds per person to spend on a leavers' party. They did all of the cost research on the Internet themselves and created the spreadsheet so they had to cut down on purchases leaving out chocolate and sweets, cakes and more fizzy drinks. They took a screen shot of their work and emailed the work to the ICT team so that it could be added to the portfolio.

Pupil used ICT to explore patterns and relationships. They make simple predictions about how changing one variable affects another in models or simulations.

They use ICT to select relevant information from a range of given sources, recognising that poor quality information and data yields unreliable results.

L4 - Fit as a Fiddle Modelling task

Worksheet used for task

Fitness Second - Fit as a Fiddle

Cost (per person)		sauna	fitness room	swimsuit	spa pool	sauna bed
		£2.00	£1.00	£0.50	£2.50	

Day	sauna	fitness room	swimsuit	spa pool	sauna bed
Monday	7	15	10	10	10
Tuesday	10	10	10	10	10
Wednesday	10	10	10	10	10
Thursday	10	10	10	10	10
Friday	10	10	10	10	10
Saturday	10	10	10	10	10
Sunday	10	10	10	10	10
Total	70	150	100	100	100

Tasks

- Set up the spreadsheet as above using Excel
- Insert the figures from the data sheet, remembering that the sauna is closed on Tuesdays and Thursdays

- Enter a formula in the correct cell to find out how many people use the sauna during the week. Use suitable formulae to complete the other totals.
- Add a column at the end labeled Daily Total, then enter a formula in the correct cell to find out the total number of people attending the Health Club on Monday. Use suitable formulae to complete the totals for the remaining days of the week.
- On the spreadsheet Add a row labeled Income after the Totals row. Then enter the formula to calculate the income from the Sauna for the week. Complete the formulae for the Income row to show the income from each of the facilities, and the grand total for the week.
- Make a copy of the spreadsheet and add it to a new worksheet
- There has been an increase in the usage of the sun beds on Mondays to 6.
- Alter your spreadsheet to show the effect of the increase has on his income.
- Make sure you explain what happens on the spreadsheet and highlight the correct cells.

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L4 - Pupils Modelling work

fit as a fitness studio

Cost (per person)

Sauna
fitness room
squash
spa pool
sunbed

This is pupils work
based on the
worksheet on
previous slide

Day

	sauna	fitness	squash	spa pool
Monday	7	75	10	30
Tuesday	7	100	15	40
Wednesday	10	100	20	35
Thursday	7	120	26	30
Friday	23	85	19	65
Saturday	0	70	25	55
Sunday	23	50	10	55
Total	63	600	125	310
Income				

formula
view

Candidate has set up a given spreadsheet for a fitness studio.

This is the original spreadsheet the candidate set up. The candidate has used
formulas to find the totals and income of the fitness studio.

sunbed	total
	=SUM(C12:F12)
	=SUM(B13:F25)
	=SUM(B17:F24)
	=SUM(B21:F22)
	=SUM(B23:F23)
	=SUM(B24:F24)
	=SUM(B25:F25)
=SUM(F19:F25)	
	=SUM(B27:G27)

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fit as a fiddle studio

Week Ending 5th oct

Cost (per person)

Sauna
fitness room
squash
spa pool
sunbed£2.00
£1.00
£1.50
£0.85
£2.50

Candidate has set up a spreadsheet and talked
about what would happen if the amount of sunbeds
used on Monday changed.

Day

Facility

	sauna	fitness	squash	spa pool	sunbed	total
Monday	7	75	10	30	30	189
Tuesday	x	100	15	40	40	189
Wednesday		100	20	35	35	179
Thursday	x	120	26	30	30	181
Friday	23	85	19	65	17	204
Saturday	0	70	25	55	24	179
Sunday	23	50	10	55	25	163
Total	63	600	125	310	95	
Income	£126.00	£600.00	£187.50	£263.50	£237.50	£2,612.50

If I increase the amount of sunbeds had on a Monday to 6, the income would also increase.

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L4- Data Handling

Pupil task sheet

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Database Tasks

KS3

Pets database task

- 1) Open the database called 'Pets database setup' from the Shared documents **ICT – Year 9 area and save it into your own my documents area.**
- 2) Complete the following tasks on the database – print out and explain what you have done on your print out (annotate it)
 - Add a new record to the database
 - Simple search for all owners that live in Blackwood (print out the results and annotate)
 - Simple search for cats in the database (print out the results and annotate)
 - Put owners names into a-z order
 - Amend the address of Miss Sarah Jones – she has moved – change to 1 High Street, Blackwood
 - Try and think of a new field you can add onto the database

Data handling task
sheet given to pupils



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L4- Data Handling Pupils work

Kerry Phillips 9D/NIH

Table1Owners

11/02/2009

Owners Code	Title	Forename	Surname	Telephone Numbr	Address line 1	Address line 2	Address line 3	Post Code	Class
1	Miss	Sarah	Jones	01495224455	45, Jones Street	Cefn fforest	Blackwood	NP12 7JH	cat
2	Mrs	Jane	Thomas	01495674323	5, Cefn Road		Pontllanfraith	NP12 8HT	dog
3	Mr	Mike	Evans	01443897675	75, High Street		Blackwood	NP12 9KJ	rat
4	Mrs	Kate	Williams	01495908765	1, The Groves	Grove Park	Blackwood	NP12 1ER	cavies
5	Ms	Sam	Davies	01495572313	23, High Street		Blackwood	NP45 L98	dog
6	Miss	Hannah	Evans	01495876994	1, Jones Stree	Cefn Fforest	Blackwood	NP56 K87	cat
7	Mr	John	Jones	01495685102	45, King Stree		Pontllanfraith	NP13 M56	dog
8	Mr	William	Williams	01495976483	24, High Street		Blackwood	NP15 8JU	cat
9	Mrs	Jenny	Smith	01495973021	The Laurels	Grove Park Lane	Blackwood	NP1 0765	cat
10	Mr	Harry	King	01443897654	87, Laurel Street		Pontllanfraith	NP34 8KJ	bird
11	Mrs	Hayley	Jones	01443785463	7, Queen Street		Markham	NP98 8JZ	mouse
12	Mr	Jordan	Buckley	01633876094	5, Highgrove Lane		Newport	NP7 6YH	other
13	Miss	Jackie	Williams	01495674389	68, High Stree		Blackwood	NP12 6YH	dog
14	Mrs	Ann	Davies	01495674321	34, Jones Stree		Newport	NP12 6YH	cat
15	Mr	Tom	Smith	01443870120	71, Hadlet Terrace		Pontllanfraith	NP23 9LJ	dog
16	Miss	Kerry	Phillips	01443873494	56, Meadow Close	Pengam	Blackwood	NP12 3RD	dog

I have added a new record to the database.

Candace has used a pre-prepared database about Pets and has done simple searches, added, amended and put in order (a-z) using the database and printed out the results.

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L4- Data Handling Pupils work

Query2

Owners Code	Title	Forename	Surname	Telephone Numt	Address line 1	Address line 2	Address line 3
1 Miss	Sarah	Jones		01495224455	45, Jones Street	Cefn forest	Blackwood
3 Mr	Mike	Evans		01443897675	75, High Street		Blackwood
4 Mrs	Kate	Williams		01495908765	1, The Groves	Grove Park	Blackwood
6 Miss	Hannah	Evans		01495876994	1, Jones Stree	Cefn Forest	Blackwood
8 Mr	William	Williams		01495976483	24 High Street		Blackwood
9 Mrs	Jenny	Smith		01495973021	The Laurels	Grove Park Lane	Blackwood
13 Miss	Jackie	Williams		01495674389	68, High Stree		Blackwood
16 Miss	Kerryn	Phillips		01443873494	56, Meadow Close	Pengam	Blackwood

I have searched for all the owners that live in Blackwood.

Query2

Owners Code	Title	Forename	Surname	Class	Type of pet
1 Miss	Sarah	Jones		cat	Tabby
6 Miss	Hannah	Evans		cat	Siamese
8 Mr	William	Williams		cat	Black & W
9 Mrs	Jenny	Smith		cat	Ginger
14 Mrs	Ann	Davies		cat	Tabby

I have searched for cats in the data base.

Pupil has followed the task sheet and searched for information in the database and annotated the searches

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L4- Data Handling Pupils work

Table1Owners

11/02/201

Owners Code	Title	Forename	Surname	Telephone Numt	Address line 1	Address line 2	Address line 3	Post Code	Class
12 Mr	Jordan	Buckley		01633679094	5, Highgrove Lane		Newport	NP7 6YH	other
14 Mrs	Ann	Davies		01495674321	34, Jones Stree		Newport	NP12 6TH	cat
5 Ms	Sam	Davies		01495673213	23, High Street		Blackwood	NP45 L98	dog
3 Mr	Mike	Evans		01443897675	75, High Street		Blackwood	NP12 9KJ	rat
6 Miss	Hannah	Evans		01495876994	1, Jones Stree	Cefn Forest	Blackwood	NP56 K87	cat
7 Mr	John	Jones		01495685102	45, King Stree		Pontllanfraith	NP13 M56	dog
11 Mrs	Hayley	Jones		01443785463	7, Queen Street		Markham	NP98 8JZ	mouse
1 Miss	Sarah	Jones		01495224455	45, Jones Street	Cefn forest	Blackwood	NP12 7JH	cat
10 Mr	Harry	King		01443897654	87, Laurel Street		Pontllanfraith	NP34 8KJ	bird
16 Miss	Kerryn	Phillips		01443873494	56, Meadow Close	Pengam	Blackwood	NP12 3RD	dog
9 Mrs	Jenny	Smith		01495973021	The Laurels	Grove Park Lane	Blackwood	NP1 0765	cat
15 Mr	Tom	Smith		01443870120	71, Hadlet Terrace		Pontllanfraith	NP23 9LJ	dog
2 Mrs	Jane	Thomas		01495674323	5, Cefn Road		Pontllanfraith	NP12 8HT	dog
13 Miss	Jackie	Williams		01495674389	68, High Stree		Blackwood	NP12 6YH	dog
4 Mrs	Kate	Williams		01495908765	1, The Groves	Grove Park	Blackwood	NP12 IER	cavies
8 Mr	William	Williams		01495970483	24, High Street		Blackwood	NP15 6JU	cat

I have put the names in order from A-Z.

Pupil has sorted the surnames into A-Z order on the database

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L4- Data Handling Pupils work

Owners Code	Title	Forename	Surname	Telephone Numbr	Address line 1	Address line 2	Address line 3	Post Code	Class
12Mr	Jordan	Buckley		01633876094	5, Highgrove Lane		Newport	NP7 6YH	other
14Mrs	Ann	Davies		01496674321	34, Jones Stree		Newport	NP12 6TH	cat
5Ms	Sam	Davies		01495572313	23, High Street		Blackwood	NP45 198	dog
3Mr	Mike	Evans		01443897675	75, High Street		Blackwood	NP12 8KJ	rat
6Miss	Hannah	Evans		01495676694	1, Jones Stree	Cefn Forest	Blackwood	NP56 K67	cat
7Mr	John	Jones		0149666102	45, King Stree		Pontllantrath	NP13 M56	dog
11Mrs	Hayley	Jones		01443785463	7, Queen Street		Markham	NP98 8JZ	mouse
1Miss	Sarah	Jones		01495224455	1, High Street		Blackwood	NP12 7JH	cat
10Mr	Harry	King		01443897654	87, Laurel Street		Pontllantrath	NP34 8KJ	bird
16Miss	Kerryn	Phillips		01443873494	55, Meadow Close	Pengam	Blackwood	NP12 3RD	dog
9Mrs	Jenny	Smith		01495673021	The Laurels	Grove Park Lane	Blackwood	NP1 0T65	cat
15Mr	Tom	Smith		01443879120	71, Hadlet Terrace		Pontllantrath	NP23 8LJ	dog
2Mrs	Jane	Thomas		01496674323	5, Cefn Road		Pontllantrath	NP12 8HT	dog
13Miss	Jackie	Williams		01496674389	68, High Street		Blackwood	NP12 8YH	dog
4Mrs	Kate	Williams		01495600765	1, The Groves	Grove Park	Blackwood	NP12 1ER	carves
8Mr	William	Williams		01496676483	24 High Street		Blackwood	NP15 8JU	cat

I have changed the address of Miss Sarah Jones

Owners Code	Title	Forename	Surname	Telephone Numbr	Address line 1	Address line 2	Address line 3	Post Code	Class
1 Miss	Sarah	Jones		01495224455	1, High Street		Blackwood	NP12 7JH	cat
2 Mrs	Jane	Thomas		01496674323	5, Cefn Road		Pontllantrath	NP12 8HT	dog
3 Mr	Mike	Evans		01443897675	75, High Street		Blackwood	NP12 8KJ	rat
4 Mrs	Kate	Williams		01495600765	1, The Groves	Grove Park	Blackwood	NP12 1ER	carves
5 Ms	Sam	Davies		01495572313	23, High Street		Blackwood	NP45 198	dog
6 Miss	Hannah	Evans		01495676694	1, Jones Stree	Cefn Forest	Blackwood	NP56 K67	cat
7 Mr	John	Jones		0149666102	45, King Stree		Pontllantrath	NP13 M56	dog
8 Mr	William	Williams		01496676483	24 High Street		Blackwood	NP15 8JU	cat
9 Mrs	Jenny	Smith		01495673021	The Laurels	Grove Park Lane	Blackwood	NP1 0T65	cat
10 Mr	Harry	King		01443897654	87, Laurel Street		Pontllantrath	NP34 8KJ	bird
11 Mrs	Hayley	Jones		01443785463	7, Queen Street		Markham	NP98 8JZ	mouse
12 Mr	Jordan	Buckley		01633876094	5, Highgrove Lane		Newport	NP7 6YH	other
13 Miss	Jackie	Williams		01496674389	68, High Street		Blackwood	NP12 8YH	dog
14 Mrs	Ann	Davies		01496674321	34, Jones Stree		Newport	NP12 6TH	cat
15 Mr	Tom	Smith		01443879120	71, Hadlet Terrace		Pontllantrath	NP23 8LJ	dog
16 Miss	Kerryn	Phillips		01443873494	55, Meadow Close	Pengam	Blackwood	NP12 3RD	dog

I have added a newfield

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L4- Data Handling Pupils work

Type of pet	Age of pet	Vaccinations up to	Photo of Pet	Name of pet
Tabby	01/01/1999	<input type="checkbox"/>		Package Lucy
Labrador	01/01/2002	<input checked="" type="checkbox"/>		Package Ben
Albino	01/01/2005	<input type="checkbox"/>		Package Dean
Beige	01/01/2003	<input type="checkbox"/>		Package Jan
Rottweiler	01/03/2004	<input checked="" type="checkbox"/>		Package Jane
Siamese	05/05/2005	<input checked="" type="checkbox"/>		Wave Sound Titch
Yorkshire	12/02/2002	<input checked="" type="checkbox"/>		Package Terry
Black & W	10/03/2005	<input checked="" type="checkbox"/>		Package
Ginger	09/08/2000	<input type="checkbox"/>		Package
Canary	19/07/2003	<input type="checkbox"/>		
White	07/01/2005	<input type="checkbox"/>		Package
Parrot	03/11/2004	<input checked="" type="checkbox"/>		
Sheepdog	04/03/1997	<input checked="" type="checkbox"/>		
Tabby	05/10/2000	<input type="checkbox"/>		
Spaniel	01/09/2005	<input type="checkbox"/>		
Rottweiler	16/07/2004	<input type="checkbox"/>		Package Judy-Fady

Pupil added a new field – type of pet

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Level 5 Characteristics

- Pupils plan their tasks for purpose and audience. They combine a variety of information and media when creating, refining and developing their own ideas and information.
- Their presentations are fit for purpose and meet the needs of their intended audience.
- They search for and select information from a range of sources, considering relevance, plausibility and accuracy.
- Pupils create their own databases and search or sort on more than one field to follow particular lines of enquiry.
- They create their own models or simulations and investigate the effect of changing data.
- They use ICT to send and receive files electronically.
- Pupils form opinions about issues raised by the use of ICT and are aware of dangers associated with misuse of the internet/related technologies.
- They recognise the implications of using networks.

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L5 – Data Handling

Advertising

- You need to advertise for your vets do this by:
- Produce a poster with your logo on it
- Set up a webpage using Publisher, front page or DreamWeaver – design on paper first!

Database

- Design a questionnaire using the data supplied on your worksheet.
- Set up a database with 15 records of different customers.
- Write a letter which you can mail merge using your database

Searching the database

- To test your database works you are going to do a simple search on the database. Do a screen shot of the search and explain what you searched for.

These were the tasks given to pupils for a data handling project

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L5 – Data Handling Pupil tasks



Pets R US

46, High Street,
Blackwood
NP12 9UO



Looking after small pets!

Title Mr ☐ Mrs ☐ Miss ☐ Ms ☐

Forename _____

Surname _____

Telephone Number

1st line Address _____

2nd line Address _____

Post Code _____

Name of pet _____

Type of pet (Breed, Colour) _____

Age of pet (Year of Birth) _____

Vaccinations up to date? Yes ☐ No ☐

Thank you for filling in the form—please
Return to Mr. James, Veterinary Surgeon at
the above address.

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Data capture form created
by pupils for customers of
Vets to enter data in order
to be put on to a customer
database

L5 – Data Handling Pupil tasks

pet table

10/02/2009

title	forename	surname	1st line address	2nd line address	3rd line address	telephone	post code	type of pet
ms	tyler	williams	16 rhys road	cefn forest	caerphilly	01486789954	np12346	rabbits
mrs	linda	williams	18 woodbine road	blackwood	cardiff	01495220993	np121qf	dog
mrs	linsey	davies	98 morrison stree	blackwood	cardiff	07987654787	np121aj	budgie
ms	joe	lloyd	98 attlee road	blackwood	cardiff	01495687954	np121we	gerbil
mr	jack	evans	84 lady smith roa	blackwood	cardiff	01435987456	np12465	dog
ms	max	mills	4 attlee road	blackwood	cardiff	07896547565	np125we	pig
miss	poppy	ball	45 bloomfield roa	cefn forest	cardiff	07896958695	np137ju	cat
mr	ryan	bradley	56 cefn road	blackwood	cardiff	07989595940	np13inp	pig
miss	hayley	lewis	65 bloomfield roa	blackwood	cardiff	01234987695	np175yu	hamster
miss	libbi	jones	16 wood bine roa	blackwood	cardiff	01495978465	np23ip8	gerbils
mr	mark	hellaway	34 gordan road	high fields	newport	01234567498	np45lop	monkey

Original database.

Candidate has entered data into the database using the correct data types. A variety of data types have been used including text, ole object, number and yes/no. Candidate chooses the data types to use and then did a simple search on the data.

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L5 – Data Handling Pupil tasks

pet table Query

	title	forename	surname	1st line adress	2nd line addr	3rd line addr	type of pet	vaccination	name of pet
mrs		linda	williams	18 woodbine road	blackwood	cardiff	dog	<input checked="" type="checkbox"/>	Lilly
ms		tyler	williams	16 rhys road	cefn forest	caerphilly	rabbits	<input checked="" type="checkbox"/>	flump
miss		libbi	jones	16 wood bine road	blackwood	cardiff	gerbils	<input checked="" type="checkbox"/>	fluffy
mr		mark	helloway	34 gordan road	high fields	newport	monkey	<input checked="" type="checkbox"/>	jimbo
mrs		linsey	davies	98 morrison street	blackwood	cardiff	budgie	<input checked="" type="checkbox"/>	lolly
ms		max	mills	4 attlee road	blackwood	cardiff	pig	<input checked="" type="checkbox"/>	wilbert
miss		hayley	lewis	65 bloomfield road	blackwood	cardiff	hamster	<input checked="" type="checkbox"/>	bob
mr		ryan	bradley	56 cefn road	blackwood	cardiff	pig	<input checked="" type="checkbox"/>	herbert

I searched the database to see how many pets had vaccinations. I did this by doing a query on the database, and saying 'yes' to pets with vaccinations, and then I ran the query and the results came up. There are 8 pets in the database that have been vaccinated.

- Candidate has shown a simple search using a screen shot. Candidate has clearly explained how he/she searched the database for pets that have had vaccinations. Candidate searched for 'yes' for vaccinations which shows that it has been searched for and found in the correct format.

J Hawkins

L5 – Data Handling Pupil tasks

surname	1st line adress	2nd line addr	3rd line addr	telephone	post code	type of pet	date of birth	vaccination	name of pet	picture
williams	18 woodbine road	blackwood	cardiff	01495220993	np121qf	dog	05/06/2006	<input checked="" type="checkbox"/>	Lilly	Package
evans	84 lady smith road	blackwood	cardiff	01495987456	np12465	dog	05/11/2004	<input type="checkbox"/>	polly	Package
williams	16 rhys road	cefn forest	caerphilly	01486789954	np12346	rabbits	05/08/2007	<input checked="" type="checkbox"/>	flump	Package
jones	16 wood bine road	blackwood	cardiff	01495578465	np23ip8	gerbils	09/09/2007	<input checked="" type="checkbox"/>	fluffy	Package
davies	98 morrison stree	blackwood	cardiff	07987654787	np121qj	budgie	25/12/2006	<input checked="" type="checkbox"/>	lolly	Package
mills	4 attlee road	blackwood	cardiff	07896547565	np125we	pig	29/09/2005	<input checked="" type="checkbox"/>	wilbert	Package
ball	45 bloomfield road	cefn forest	cardiff	07896558695	np137ju	cat	18/09/2006	<input type="checkbox"/>	miltens	Bitmap Image
lloyd	98 attlee road	blackwood	cardiff	01495687954	np121we	gerbil	03/06/2006	<input type="checkbox"/>	rolo	Package
lewis	65 bloomfield road	blackwood	cardiff	01234967695	np175yu	hamster	29/07/2007	<input checked="" type="checkbox"/>	bob	Package
bradley	56 cefn road	blackwood	cardiff	07989555940	np13inp	pig	02/06/2005	<input checked="" type="checkbox"/>	herbert	Package

Screen shot showing all pets born after 01/01/2004. I did this by right clicking on the date and filtering for pets born after 01/01/04. There are 10 people with pets born after this time in the database. I checked that the data I searched was correct by checking the date column in the database.

Candidate has searched the database using a date/time field, and checked that the data type was correct.

J Hawkins

Level 5 Communicating Information

Information has been selected for a purpose, a variety of info and media has been used

Presentations are fit for a specific purpose and audience

Harry Potter and the Prisoner of Azkaban

By J K Rowling

Winner of the red Peter book prize and the award for best children's book in the mercury awards.

"THEN YOU SHOULD HAVE DIED!" roared Black.

Harry Potter goes through more up and downs as he joins his 3rd year of witchcraft and wizardry. There is a murderer on the loose and he has entered Hogwarts! Can Harry help to capture him? See what happens when the Azkaban guards enter the school. Watch Harry play excellent quidditch and learn new spells. This year Harry Potter has even more trouble with his aunt and uncle and his cousin Dudley with the help from the knights but he can leave them but for how long? With help from his friends Hermione and Ron Harry has an exciting year!

Also in this series Harry Potter and the philosopher's stone, Harry Potter and the Chamber of Secrets and coming soon to a shop near you Harry Potter and the Goblet of Fire so get reading!

UK £9.99 US \$2

<http://www.Bonniebooks.co.uk>

Pupil created own model and investigated the effects of changing data

L5 Modelling

Tasked planned to suit purpose and audience

Six Lunches

We were given a task to process a packed lunch for six people.

- First we were told that the cook would process the sandwiches, and that the price of each packed lunch could not exceed £1; so for six people the price could not exceed £6.
- Then we were told to go and collect prices of food that we would like to have in our lunch box; we collected our information from Tesco's Internet site!
- We processed the chart below using Number Magic and the information we collected.

OUR LUNCH			
PRODUCE	INDIVIDUAL PRICE	MULTIPAK PRICE	HOW MANY?
Assorted Crisps	29	0.79	6
Blue Riband		0.59	6
Strawberry laces		0.59	1
Fromage Frais		0.45	6
Bananas Loose		1.08	6
Caffeine Free Diet Cola		1.96	6
Total=		£5.45	
How Much Spent Per Head?		£0.91	
How Much Allowed?		£1.00	
How much left to spend?		£0.09	

Next we made a questionnaire so that we could see what the children wanted (see above).

Once we had given that out and had it received back we found out that there was a potato harvest shortage and the price came up three pence for crisps so we changed our prices, but we didn't have to change our formulas, below is a changed chart.

LUNCH			
PRODUCE	INDIVIDUAL PRICE	MULTIPAK PRICE	HOW MANY?
Assorted Crisps	42	0.97	6
Blue Riband		0.59	6
Strawberry laces		0.59	1
Fromage Frais		0.45	6
Bananas Loose		1.08	6
Caffeine Free Diet Cola		1.96	6
Total=		£5.63	
How Much Spent Per Head?		£0.94	
How Much Allowed Per Head?		£1.00	

There is also some reflection within the piece of work

J Hawkins

Level 6 Characteristics

- Pupils plan their tasks in detail for specific purposes and audiences.
- They use ICT to create and refine their work using information from a range of sources, recognising the need for different styles for different audiences.
- They use ICT to check accuracy and plausibility by comparing information from different sources, making choices to meet the needs of a specific purpose or audience.
- They use databases to follow complex lines of enquiry and draw conclusions.
- They use models or simulations of increasing complexity, vary the rules within them and test hypotheses.
- Pupils have opinions about issues raised by the use of ICT and know the dangers associated with misuse of the internet/related technologies.

J Hawkins

Level 6 – Communicating Information

TASK 2

PowerPoint presentation

- After gathering the research, you are now going to produce a PowerPoint presentation telling people from outside of Wales about three famous Welsh heroes
- You need to use animations, colour, rotate images, layers, master slides etc to make your presentation stand out
- If you have time you can also add sound or record your voice over the presentation.

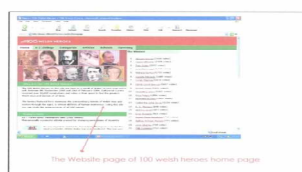
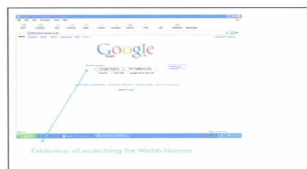
** Don't forget to remember who you are aiming the presentation at (people who live outside of Wales, who know very little about Welsh heroes).



Task sheet given to pupils

J Hawkins

Level 6 – Communicating Information Pupil Work



Pupil shows how they have searched for the information they found on their Welsh Harors.

J Hawkins

Level 6 – Communicating Information pupil work

2/10/2009



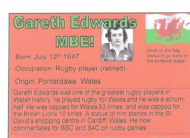
Candidate has used master slides throughout the presentation.

Colours are consistent throughout clearly showing the link with Wales.

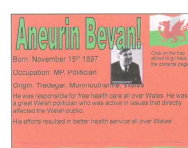
auto-shapes used and rotation



Candidate has used hyperlinks on each slide to navigate pages.



flag is consistent. Candidate has found relevant images using the internet.



Pupil has used a variety of advanced features on the presentation

Candidate has used spell check to check spelling throughout presentation.

J Hawkins

Level 6 pupil work Communicating Information

Pupils plan their tasks in detail for specific purposes and audiences (a planning sheet could be used)

They use ICT to create and refine their work using information from a range of sources, recognising the need for different styles for different audiences.

Pupils make choices to suit a specific audience and purpose

J Hawkins

Level 6 – Data handling

Tasks	Completed
Task One Database	
• You must Print Screen and annotate all tested data	✓
• Questionnaire	✓
• Hand drawn data capture form	
• Design data capture form	
• Data Structure Table	✓
• Database (20 Records)	
• Validation	
• Test Database using a test table	✓
• Two simple searches with reasons	
• Three complex searches with reasons and explanation of search	
• Sort, add and amend data	✓
Task Five Mail Merge	
• Mail Merge a standard letter to all of your dating agencies customers.	

Pupil task sheet for a database project

J Hawkins

Level 6 – Data handling Pupil Work



Love Shack Questionnaire

Name:
 Title: Mr/Mrs/Ms (please circle)
 Forename: Megan Surname: Green
 Address:
 Home Address: 17 Penmaen Street
 Town: Blackwood
 County: Carmarthenshire
 Postcode: NP23 1NY
 Contact Details:
 Home: 01495 247088 Mobile:
 Personal Details:
 Date of Birth: 11/11/82
 Gender: Male/Female (Please circle)
 About Yourself:
 Hair colour: Brown
 Eye Colour: Brown
 Height: 5'6"

Hobbies:
 Any Hobbies: Swimming
 Do them alone or with others: alone
 How often do you do them: 1-2 weeks
 What you're looking for:
 Gender: Male/Female (please circle)
 Age:
 Hair Colour:
 Eye Colour:
 Height:
 Personality:
 Sexuality:
 Please circle:
 Straight Gay Lesbian/Bisexual Undecided
 What do you want out of the relationship?
 Not sure... J. Hawkins

Pupil created a data capture form for customers to fill in to join a dating agency

Level 6 – Data handling Pupil Work

ID	Title	Forename	Surname	Address	Home number	Mobile	Date of Birth	Gender
1	Miss	Eden	Kemp	Frondeg, Wind	1495221297	07994054069	25/3/84	Female
2	Miss	Jenna	Jones	33 salway aven	1443830299	07845346737	21/4/94	Female
3	Mr	Joel	Collins	14 Y-Cedwydd	1495222784	07969722921	2/11/83	Male
4	Mr	Jordan	Collins	9 penmaen cor	1495224282	07932804186	1/3/85	Male
5	Mr	Ben	Macfarlen	7 melin street	1495201359	07805478029	14/04/92	Male
6	Miss	Vicki	Waters	16 bryndeg ave	1495220189	07505599336	11/11/82	Female
7	Mr	Daniel	Wallace	10 melin street	1443832700	07528298049	17/6/88	Male
8	Mr	Alex	Thomas	88 coronation s	1495226939	07986457462	19/12/88	Male
9	Miss	Jemma	Sey	15 penmaen co	1495226939	07909711059	24/12/85	Female
10	Mr	Ian	Light	12 pwll glas rd	1443838451	07974358054	01/11/87	Male
11	Ms	Bronia	Richards	65 lanarth rd	1495226999	07856324781	12/2/75	Female
12	Mr	Ashley	Williams	56 crown street	1283269452	07977408219	08/1/90	Male
13	Miss	Becky	Green	21 ford street	1495240261	07963257123	20/1/92	Female
14	Mr	Gareth	Ford	96 meadow lan	1495223569	07965421036	20/10/88	Male
15	Mr	Matthew	Bassett	14 attlee rd	1495228754	07526784159	25/6/86	Male

Pupil created a database with 15 records

J Hawkins

Level 6 – Data Handling Pupil Work

ID	Title	Forname	Surname	Address	Home number	Mobile	Date of Birth	Gender
15	Mr	Matthew	Bassett	14 attlee rd	1495228754	07526784159	25.6.86	Male
6	Miss	Jade	Brooks	40 attlee road	1495226133	07856935210	05.09.91	Female
4	Mr	Jordan	Collins	9 penmaen cor	1495224282	07932804186	1.3.85	Male
3	Mr	Joel	Collins	14 Y-Cedwrydd	1495222784	07969122921	9.11.88	Male
14	Mr	Gareth	Ford	96 meadow lan	1495223569	07965421036	20.10.88	Male
13	Miss	Becky	Green	21 ford street	1495240261	07963257123	20.1.92	Female
2	Miss	Jenna	Jones	33 salway aven	1443830299	07845346737	21/4/94	Female
10	Mr	Ian	Light	12 pwll glas rd	1443838451	07974358064	01.11.87	Male
5	Mr	Ben	Macfarlen	7 melin street	1495201359	07805478029	14.04.92	Male
11	Ms	Bronia	Richards	65 llanarth rd	1495226009	07866324781	12.2.75	Female
9	Miss	Jemma	Sey	15 penmaen co	1495226039	07909711059	24.12.85	Female
8	Mr	Alex	Thomas	88 coronation s	1495226939	07986457462	19.12.88	Male
7	Mr	Daniel	Wallace	10 melin street	1443832700	07528298049	17.5.88	Male
1	Mrs	Eden	Williams	Frondeg, Wind	1495221297	07964054068	25/3/94	Female
12	Mr	Ashley	Williams	56 crown street	1283269452	07977409219	08.1.90	Male

I sorted all surnames to alphabetical order.

J Hawkins

Level 6 – Data Handling Pupil Work

ID	Title	Forname	Surname	Address	Home number	Mobile	Date of Birth	Gender
8	Mr	Alex	Thomas	88 coronation s	1495226939	07986457462	19.12.88	Male
10	Mr	Ian	Light	12 pwll glas rd	1443838451	07974358064	01.11.87	Male
12	Mr	Ashley	Williams	56 crown street	1283269452	07977409219	08.1.90	Male
14	Mr	Gareth	Ford	96 meadow lan	1495223569	07965421036	20.10.88	Male
15	Mr	Matthew	Bassett	14 attlee rd	1495228754	07526784159	25.6.86	Male
3	Mr	Joel	Collins	14 Y-Cedwrydd	1495222784	07969122921	9.11.88	Male
4	Mr	Jordan	Collins	9 penmaen cor	1495224282	07932804186	1.3.85	Male
5	Mr	Ben	Macfarlen	7 melin street	1495201359	07805478029	14.04.92	Male
7	Mr	Daniel	Wallace	10 melin street	1443832700	07528298049	17.5.88	Male
20		Megan Green				0		

Simple search of all male members

ID	Title	Forname	Surname	Address	Home number	Mobile	Date of Birth	Gender
3	Mr	Joel	Collins	14 Y-Cedwrydd	1495222784	07969122921	9.11.88	Male
5	Mr	Ben	Macfarlen	7 melin street	1495201359	07805478029	14.04.92	Male
22		Megan Green				0		

Complex search of members that are male with brown eyes.

J Hawkins

Level 6 – Data Handling Pupil Work

Dating Agency Database Report

A database is a logical or organised way to collect data and information that is held together.

All the different parts are called fields. Its where all information is separated into individual parts.

Title	Forename	Surname	Address	Home number
Miss	Jade	Brooke	40 attlee road	1495236133
Miss	Jenna	Jones	33 salway aven	1443830299
Miss	Becky	Green	21 ford street	1496240261
Miss	Jemma	Sey	16 penmaen co	1495226939
Mr	Daniel	Wallace	10 main street	1443832700
Mr	Rian	Macfarlan	7 main street	1495201369
Mr	Jordan	Collins	9 penmaen com	1495224202
Mr	Joel	Collins	14 Y.Cedwydd	1495222784
Mr	Matthew	Bassett	14 attlee rd	1495228754
Mr	Gareth	Ford	96 meadow lan	1496233669
Mr	Ashley	Williams	56 crown street	1263269462
Mr	Ian	Light	12 pwll glas rd	1443838451
Mr	Alex	Thomas	86 coronation s	1495226939
Mrs	Eden	Williams	Frondeg, Windy	1495221297
Ms	Bronia	Richards	65 llanarth rd	1495279999



Fields

A database can be used for a birthday book, address book, yellow pages.

Advantages

Advantages of using computerised databases are that it's easier and quicker to find information. Looking for more specific information is J Hawkins easier.

Disadvantages

Disadvantages are that paper based data is much more complicated to find and it's difficult to analyse the data. Paper based can become very messy and take up a lot of space.

My Database

My database is about the members of my dating agency. We did this so that we could see how many members we had in our agency and made it easier to find all their personal details. It was also made easier to put members into different categories for other members. The database helped us to find the perfect match between different members we did this by doing either simple searches or complex searches for all other members. This brings advantage to my dating agency so that members would find their perfect match and it would make the job much easier.

Title	Forename	Surname	Address	Home number	Mobile	Date of Birth	Gender	Hair colour
Miss	Jade	Brooke	40 attlee road	1495236133	0795693210	05.09.91	Female	Brown
Miss	Jenna	Jones	33 salway aven	1443830299	0784534679	21.04.94	Female	Blonde
Miss	Becky	Green	21 ford street	1496240261	07953257129	20.1.92	Female	Brown
Miss	Jemma	Sey	16 penmaen co	1495226939	07926711026	24.12.95	Female	Black
Mr	Daniel	Wallace	10 main street	1443832700	0753262649	17.5.88	Male	Brown
Mr	Rian	Macfarlan	7 main street	1495201369	07956547029	14.04.92	Male	Brown
Mr	Jordan	Collins	9 penmaen com	1495224202	07932041185	1.3.95	Male	Black
Mr	Joel	Collins	14 Y.Cedwydd	1495222784	07969117001	9.11.95	Male	Brown
Mr	Matthew	Bassett	14 attlee rd	1495228754	07932674169	26.6.96	Male	Brown
Mr	Gareth	Ford	96 meadow lan	1496233669	0795451035	25.10.95	Male	Blonde
Mr	Ashley	Williams	56 crown street	1263269462	0797492619	00.1.90	Male	Dark
Mr	Ian	Light	12 pwll glas rd	1443838451	0797498884	01.11.87	Male	Brown
Mr	Alex	Thomas	86 coronation s	1495226939	07964527462	19.12.88	Male	Blonde
Ms	Eden	Williams	Frondeg, Windy	1495221297	0796454393	25.09.94	Female	Brown
Ms	Bronia	Richards	65 llanarth rd	1495279999	07966234781	17.2.78	Female	Blonde

Pupil produced a report based on the database they created and searched

Level 6 – Modelling pupil work

tickets sold	takings	disco hire	food cost	total cost	profit
0	£0.00	£50.00	£0.00	£50.00	-£50.00
10	£16.00	£50.00	£7.00	£67.00	-£42.00
20	£30.00	£50.00	£14.00	£84.00	-£34.00
30	£45.00	£50.00	£21.00	£101.00	-£28.00
40	£60.00	£50.00	£28.00	£118.00	-£18.00
50	£75.00	£50.00	£35.00	£135.00	-£10.00
60	£90.00	£50.00	£42.00	£152.00	-£2.00
70	£105.00	£50.00	£49.00	£169.00	£6.00
80	£120.00	£50.00	£56.00	£186.00	£14.00
90	£135.00	£50.00	£63.00	£203.00	£22.00
100	£150.00	£50.00	£70.00	£220.00	£30.00
110	£165.00	£50.00	£77.00	£237.00	£38.00
120	£180.00	£50.00	£84.00	£254.00	£46.00
130	£195.00	£50.00	£91.00	£271.00	£54.00
140	£210.00	£50.00	£98.00	£288.00	£62.00
150	£225.00	£50.00	£105.00	£305.00	£70.00
160	£240.00	£50.00	£112.00	£322.00	£78.00
170	£255.00	£50.00	£119.00	£339.00	£86.00
180	£270.00	£50.00	£126.00	£356.00	£94.00
190	£285.00	£50.00	£133.00	£373.00	£102.00
200	£300.00	£50.00	£140.00	£390.00	£110.00
210	£315.00	£50.00	£147.00	£407.00	£118.00
220	£330.00	£50.00	£154.00	£424.00	£126.00



Question 1

To make £30 profit
you need to sell 100
tickets

To make £70 profit
you need to sell 150
tickets

Candidate has set up a spreadsheet using a worksheet and created formulas to find out takings, food cost, total cost and profit. Candidate has answered a series of questions based on the model.

J Hawkins

Level 6 – Modelling Pupil Work

tickets sold	takings	disco hire	food cost
0	=A2*1.5	50	=A2*0.7
10	=A3*1.5	50	=A3*0.7
20	=A4*1.5	50	=A4*0.7
30	=A5*1.5	50	=A5*0.7
40	=A6*1.5	50	=A6*0.7
50	=A7*1.5	50	=A7*0.7
60	=A8*1.5	50	=A8*0.7
70	=A9*1.5	50	=A9*0.7
80	=A10*1.5	50	=A10*0.7
90	=A11*1.5	50	=A11*0.7
100	=A12*1.5	50	=A12*0.7
110	=A13*1.5	50	=A13*0.7
120	=A14*1.5	50	=A14*0.7
130	=A15*1.5	50	=A15*0.7
140	=A16*1.5	50	=A16*0.7
150	=A17*1.5	50	=A17*0.7
160	=A18*1.5	50	=A18*0.7
170	=A19*1.5	50	=A19*0.7
180	=A20*1.5	50	=A20*0.7
190	=A21*1.5	50	=A21*0.7
200	=A22*1.5	50	=A22*0.7
210	=A23*1.5	50	=A23*0.7
220	=A24*1.5	50	=A24*0.7

Formula used by Candidate.

J Hawkins

Level 6 – Modelling Pupil Work

tickets sold	takings	disco hire	food cost	total cost	profit
120	£180.00	£50.00	£84.00	£134.00	£46.00
121	£181.50	£50.00	£84.70	£134.70	£46.80
122	£183.00	£50.00	£85.40	£135.40	£47.60
123	£184.50	£50.00	£86.10	£136.10	£48.40
124	£186.00	£50.00	£86.80	£136.80	£49.20
125	£187.50	£50.00	£87.50	£137.50	£50.00
126	£189.00	£50.00	£88.20	£138.20	£50.80
127	£190.50	£50.00	£88.90	£138.90	£51.60
128	£192.00	£50.00	£89.60	£139.60	£52.40
129	£193.50	£50.00	£90.30	£140.30	£53.20
130	£195.00	£50.00	£91.00	£141.00	£54.00

Question 2

To make £50 profit you need to sell 125 tickets



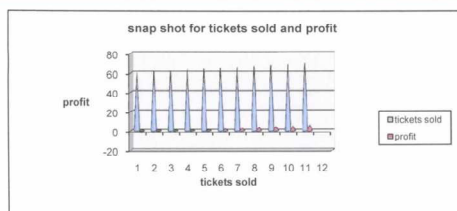
Candidate shows a snapshot of tickets sold to find out how many tickets are needed to make £50 profit.

J Hawkins

Level 6 – Modelling Pupil Work

tickets sold	takings	disco hire	food cost	total cost	profit
60	£90.00	£50.00	£42.00	£92.00	-£2.00
61	£91.50	£50.00	£42.70	£92.70	-£1.20
62	£93.00	£50.00	£43.40	£93.40	£0.40
63	£94.50	£50.00	£44.10	£94.10	£0.40
64	£96.00	£50.00	£44.80	£94.80	£1.20
65	£97.50	£50.00	£45.50	£95.50	£2.00
66	£99.00	£50.00	£46.20	£96.20	£2.80
67	£100.50	£50.00	£46.90	£96.90	£3.60
68	£102.00	£50.00	£47.60	£97.60	£4.40
69	£103.50	£50.00	£48.30	£98.30	£5.20
70	£105.00	£50.00	£49.00	£99.00	£6.00

Question 3
To breakeven you need to be able to sell between 62 and 63 tickets



Question 5
the purpose of this graph is to show profits made by however many tickets sold.

Candidate has used a snapshot to show how many tickets need to be sold to break even.
Candidate has created a graph with a purpose.

J Hawkins

Level 6 – Modelling work Pupil Work

What if investigation

disco hire £55
cost of refreshments 85p

tickets sold	takings	disco hire	food cost	total cost	profit
0	£0.00	£55.00	£0.00	£55.00	-£55.00
10	£15.00	£55.00	£8.50	£63.50	-£48.50
20	£30.00	£55.00	£17.00	£72.00	-£42.00
30	£45.00	£55.00	£25.50	£80.50	-£35.50
40	£60.00	£55.00	£34.00	£89.00	-£29.00
50	£75.00	£55.00	£42.50	£97.50	-£22.50
60	£90.00	£55.00	£51.00	£106.00	-£16.00
70	£105.00	£55.00	£59.50	£114.50	-£9.50
80	£120.00	£55.00	£68.00	£123.00	-£3.00
90	£135.00	£55.00	£76.50	£131.50	£3.50
100	£150.00	£55.00	£85.00	£140.00	£10.00
110	£165.00	£55.00	£93.50	£148.50	£16.50
120	£180.00	£55.00	£102.00	£157.00	£23.00
130	£195.00	£55.00	£110.50	£165.50	£29.50
140	£210.00	£55.00	£119.00	£174.00	£36.00
150	£225.00	£55.00	£127.50	£182.50	£42.50
160	£240.00	£55.00	£136.00	£191.00	£49.00
170	£255.00	£55.00	£144.50	£200.00	£55.00
180	£270.00	£55.00	£153.00	£208.00	£62.00
190	£285.00	£55.00	£161.50	£216.50	£68.50
200	£300.00	£55.00	£170.00	£225.00	£75.00
210	£315.00	£55.00	£178.50	£233.50	£81.50
220	£330.00	£55.00	£187.00	£242.00	£88.00

Question 4
if you change the disco hire to £55.00 and the food cost to £0.85 profits will decrease.

Candidate has done a 'what if investigation' and changed both a variable and a formula.
Candidate has also explained what would happen after the change. The formula changed is $\text{tickets sold} \times £0.85$, therefore changing the price of food. The variable changed is disco hire.

J Hawkins

Level 7 Characteristics

- Pupils plan independently for different purposes and audiences specifying resources and sources.
- They refine their choice of selected information to match the needs of a specific purpose or audience.
- Pupils identify the advantages and limitations of different applications and select and use suitable ICT facilities.
- They design a database making appropriate choices within a data-handling application using its specialised functions.
- They design computer models and procedures, with variables, to meet specific needs.
- Pupils have informed opinions of legal and other issues raised by the use of ICT in the wider world.
- They use the internet/related technologies safely and independently.

J Hawkins

Level 7 Communicating information

Computer Health & Safety

Although PCs have some great advantages, they also have some health and safety issues that need to be addressed when we are using the PCs either for work or play.

What health and safety issues can you think of associated with computers?

How can we prevent these from happening?

Your Task

You have been asked to produce a leaflet for people working with computers working at your design agency.

The leaflet has to include information about how to work safely with computers and the hazards that can arise from using PCs and how the hazards can be prevented.

The leaflet is to be two sided, you can use the DTP software Publisher to create the leaflet.

Task sheet given to pupils

Level 7 Communicating information pupil work

Safety

- Ensure all wires are tucked away safely.
- Do not overload electrical sockets.
- Electric equipment should be tested at least once a year.
- Bags and other items should be kept away from people tripping.

Health & Safety

There are various health problems associated with the regular use of computers, such as stress, eye strain and injuries to the wrist neck and back.

Eyes become strained after staring at a computer for a long period of time. To help prevent this use monitors that don't flicker. Use blinds to block sun from shining straight on to the screen and concentrate on something else.

Another injury is R.S.I (repetitive strain injury) this is damage to the fingers, wrist and other body parts due to repeated movements over a period of time.

Symptoms include:

- Aching
- Tenderness
- Weakness
- Swelling
- Numbing
- Pins & Needles
- Burning Sensations

Save your back... Learn how to use it Properly

Pupil hand design work

J Hawkins

Level 7 Communicating information pupil work

Safety

- Ensure all wires are tucked away safely.
- Do not overload electrical sockets.
- Electric equipment should be tested at least once a year.
- Bags and other items should be kept away from people tripping.

Health & Safety

There are various health problems associated with the regular use of computers, such as stress, eye-strain and injuries to the wrist, neck and back.

Eyes become strained after staring at a computer time for a long period of time. To help prevent this use monitors that don't flicker. Use blinds to block sun from shining straight on to the screen and regularly look away from the screen and concentrate on something else.

Another injury is R.S.I (repetitive strain injury) this is damage to the fingers, wrist and other body parts due to repeated movements over a long period of time.

Symptoms include:

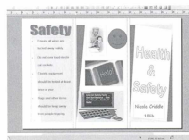
- Aching
- Tenderness
- Weakness
- Swelling
- Numbing
- Pins and needles & burning sensation.

Save your back... learn how to use it properly

Pupil task using DTP software

J Hawkins

Level 7 Communicating information pupil work



DTP report

The purpose of this Computer health and safety leaflet is to tell the employees of my dating agency how to use a computer safely. It explains how they should sit and what injury they may get if they do not do this. I made the leaflet on Microsoft Publisher. I started with a blank publication and changed the colour scheme. Some of the features of publisher I used are:

- add borders
- word art
- import of pictures
- water mark
- Layering
- format fonts and colour schemes



How I designed it

- To design my leaflet I went on to the DTP software called publisher and I chose from the publications for print list – brochures.



- I then chose a suitable colour scheme for the leaflet, and to keep continuity I kept to the same colours (green) throughout the leaflet.
- After gathering information using the internet and my own knowledge I learnt in ICT I produced information to the employees of the dating agency about computer health and safety. When entering the text I kept the same colour scheme and used a simple font that was easy to understand.
- I then added pictures I found on the internet about health and safety using the computers. The pictures showed how information about how best to sit and problems that could happen when using PCs if they are not used correctly.
- I printed out my first draft and then decided to make some necessary changes, e.g. I added some borders to make it look more presentable. I added a header and footer with my name and the page number to make it easy to navigate. I then reprinted the leaflet and again needed to make some final changes including resizing a picture, renaming the title so that it included the word computer, and adding to a picture as a background.

Purpose of pupils work and how it was designed

J Hawkins

Level 7 Communicating information pupil work

Evaluation

- I felt my leaflet was appropriate for its purpose as it gave lots of useful information to employees of the agency about computer health and safety issues. I felt it was well laid out, and had the same colour scheme, layout and font throughout so that continuity was kept.
- My leaflet is appropriate for the intended audience (employees of the dating agency) as it is well laid out, the language I used is easy to understand and suitable for employees and the colour scheme is appropriate.
- If I did the leaflet again I would change a few things such as put more suitable headings on the page 2 of the leaflet as it doesn't really say what it is about. I would also give contact information about who to contact about health and safety in the workplace (dating agency) and I would also say that the leaflet was for the employees of the dating agency and make that clearer.

Pupil evaluation of work.

J Hawkins

Level 7 Modelling

Tasks	Completed
Task - Spreadsheets	✓
• Create your own spreadsheet for your dating agency	✓
• Write an introduction about what you are planning to do in your spreadsheet	✓
• Simple formulas e.g. B28*C2	✓
• Graphs and reason why?	✓
• 'What if' investigation	✓
• Complex features e.g. IF functions, absolute values, sorts etc. (did not use the Vlookup as advanced)	✓
• Write a report on how your spreadsheet worked	✓
• Advanced processing e.g. export/import, macros	✓
• Design and formatting – header/footer, styles, labels etc.	✓

J Hawkins

Pupil task sheet

Level 7 Modelling pupil work

Looking For Love



I am going to organise a disco so that I can raise money for a dating agency, looking for love. The money that is raised is hopefully going to go towards buying a new 3in1 Printer, Scanner and photocopier so that all documents can be printed correctly and copied easily.

I am hoping to keep the costs of the disco low in order to make a bigger profit. I am going to look for a low price D.j who is willing to do the music for approximately £50.

I also hope that I can charge 70p for refreshments per person and £2 entry fee.

I will use a spreadsheet (Microsoft excel) to help me decide how many I must sell in order to make a profit and also what would happen if I changed the amount of tickets and food that I sold. I take these spreadsheets to the bank to show the possibilities. A graph could help the bank understand the costs and profits.

J Hawkins

Pupil introduction to task sheet

Level 7 Modelling pupil work

What if investigation?

Tickets sold	Takings	Disco hire	Food cost	Total cost	Profit
0	£0.00	£55.00	£0.00	£55.00	-£55.00
10	£20.00	£55.00	£8.50	£63.50	-£43.50
20	£40.00	£55.00	£17.00	£72.00	-£32.00
30	£60.00	£55.00	£25.50	£80.50	-£20.50
40	£80.00	£55.00	£34.00	£89.00	-£9.00
50	£100.00	£55.00	£42.50	£97.50	£2.50
60	£120.00	£55.00	£51.00	£106.00	£14.00
70	£140.00	£55.00	£59.50	£114.50	£25.50
80	£160.00	£55.00	£68.00	£123.00	£37.00
90	£180.00	£55.00	£76.50	£131.50	£48.50
100	£200.00	£55.00	£85.00	£140.00	£60.00
110	£220.00	£55.00	£93.50	£148.50	£71.50
120	£240.00	£55.00	£102.00	£157.00	£83.00
130	£260.00	£55.00	£110.50	£165.50	£94.50
140	£280.00	£55.00	£119.00	£174.00	£106.00
150	£300.00	£55.00	£127.50	£182.50	£117.50
160	£320.00	£55.00	£136.00	£191.00	£129.00
170	£340.00	£55.00	£144.50	£199.50	£140.50
180	£360.00	£55.00	£153.00	£208.00	£152.00
190	£380.00	£55.00	£161.50	£216.50	£163.50
200	£400.00	£55.00	£170.00	£225.00	£175.00

If you change the disco hire to £55 and the food cost to 85p then the profits will decrease.

Pupil spreadsheet investigation

J Hawkins

Level 7 Modelling pupil work

Disco Report



I decided to hire a disco to raise funds for my dating agency. To make money the disco will have to make a profit I was unsure of how to work out the correct figures. Setting up the spreadsheet allowed me to see clearly what I had done (You can show the formulae and print out worksheets) and I could also experiment with different figures – charge more for tickets and less for food and if I decided the D.j was to much I could get another for a quote price. The spreadsheet can ‘model’ ideas. In other words you can change the database to get a ‘prediction’ of an outcome or result. With the disco it was possible to ask the question what would happen if the price of the disco went up to £55 and to find out how many extra tickets they needed to sell to break even.

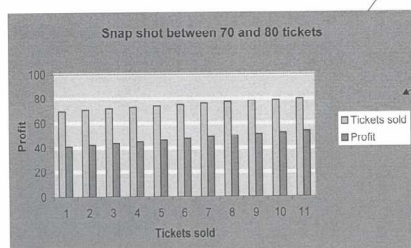
Pupil reports on the spreadsheet task they undertook with outcomes and evaluation

J Hawkins

Level 7 Modelling pupil work

Tickets sold	Takings	Disco hire	Food cost	Total cost	Profit
70	£140.00	£50.00	£49.00	£99.00	£41.00
71	£142.00	£50.00	£49.70	£99.70	£42.30
72	£144.00	£50.00	£50.40	£100.40	£43.60
73	£146.00	£50.00	£51.10	£101.10	£44.90
74	£148.00	£50.00	£51.80	£101.80	£46.20
75	£150.00	£50.00	£52.50	£102.50	£47.50
76	£152.00	£50.00	£53.20	£103.20	£48.80
77	£154.00	£50.00	£53.90	£103.90	£50.10
78	£156.00	£50.00	£54.60	£104.60	£51.40
79	£158.00	£50.00	£55.30	£105.30	£52.70
80	£160.00	£50.00	£56.00	£106.00	£54.00

Pupil states purpose of graph they created from spreadsheet



The purpose of this graph is to show the profit made between 70 and 80 tickets for the disco I organised for my dating agency.

J Hawkins